

RECEIVED
CENTRAL FAX CENTER

DEC 11 2006

Appl. No. 10/506,490
Amdt. Dated December 11, 2006
Reply to Office Action of July 10, 2006

Amendment to the Claims

This listing will replace all prior versions, and listings, of the claims in the application:

Listing of Claims:

Claim 1 (Currently amended): A vulcanizable adhesive composition for use in providing vulcanization adhesion between a metal and nitrile rubber with a nitrile content of 18 to 48% or between a metal and a hydrogenated nitrile rubber with a nitrile content of 18 to 48%, said vulcanizable adhesive composition, comprising ~~which comprises~~ 100 parts by weight of methylol group-containing phenolxylylene resin as a polycondensation product between 1,4-bis(alkoxymethyl)benzene and phenol having at least one methylol group at the 2,4-positions or methylol group-containing phenolbiphenyl as a polycondensation product between 4,4'-bis(alkoxymethyl)bisphenyl and phenol having at least one methylol group at the 2, 4-positions, 10 to 1,000 parts by weight of resol-type phenol resin, 0 to 1,000 parts by weight of novolak-type resin, 10 to 1,000 parts by weight of unvulcanized nitrile rubber and 10 to 500 parts by weight of chlorinated polyrthylene, polyethylene, ~~said vulcanizable adhesive composition being used in a manner which provides vulcanization adhesion between a metal and nitrile rubber with a nitrile content of 18 to 48% or between a metal and a hydrogenated nitrile rubber with a nitrile content of 18 to 48%.~~

Appl. No. 10/506,490
Amdt. Dated December 11, 2006
Reply to Office Action of July 10, 2006

Claim 2 (Original): A vulcanizable adhesive composition according to Claim 1, as prepared in the form of an organic solvent solution.

Claim 3 (Canceled)

Claim 4 (Previously presented): An integrated seal element which comprises a metal and nitrile rubber or a metal and hydrogenated nitrile rubber, adhered together by vulcanization of the vulcanizable adhesive composition according to Claim 1.

Claim 5 (Currently amended): An integrated seal element which comprises a metal and nitrile rubber or a metal and hydrogenated nitrile rubber that are adhered together by vulcanization of the vulcanizable adhesive composition according to Claim 1, wherein an adhesive characteristic of the composition is resistant to cryogenic fluids. ~~according to Claim 4 which comprises a cryogenic liquid seal.~~

Claim 6 (Previously presented): An integrated seal element which comprises a metal and nitrile rubber or a metal and hydrogenated nitrile rubber adhered together by vulcanization of the vulcanizable adhesive composition according to Claim 2.

Appl. No. 10/506,490
Amdt. Dated December 11, 2006
Reply to Office Action of July 10, 2006

Claim 7 (Currently amended): An integrated seal element which comprises a metal and nitrile rubber or a metal and hydrogenated nitrile rubber that are adhered together by vulcanization of the vulcanizable adhesive composition according to Claim 2, wherein an adhesive characteristic of the composition is resistant to cryogenic fluids. ~~according to Claim 6 which comprises a cryogenic liquid seal.~~

Claim 8 (New): In a sealing element used to provide a seal against cryogenic fluids, the improvement wherein the sealing element comprises a metal and nitrile rubber or a metal and hydrogenated nitrile rubber that are adhered together by vulcanization of the vulcanizable adhesive composition according to Claim 1.

Claim 9 (New): In a sealing element used to provide a seal against cryogenic fluids, the improvement wherein the sealing element comprises a metal and nitrile rubber or a metal and hydrogenated nitrile rubber that are adhered together by vulcanization of the vulcanizable adhesive composition according to Claim 2.